Nepheline N20 AND N45 PO

Nepheline Syenite

Stjernøy, Norway

Product description

Nepheline products are high alkali ceramic fluxes, produced from nepheline syenite; a naturally occurring, silica deficient, sodium – potassium alumina silicate.

Nepheline products are processed and sized with rigid adherence to ISO 9001 quality procedures which ensure consistency, lower iron oxides and uniform particle distributions.

Granulometric Data & Physical Characteristics

Mean values. These do not represent a specification

% Finer	Particle size (µm)	N20	N45
(Malvern Mastersizer 3000)	60	100,0	99,4
	40	100,0	94,4
	30	99,7	86,3
	20	96,0	69,5
	15	89,6	56,2
	10	75,1	39,0
	5	43,0	17,7
	3	22,9	7,6
	D(0,5)	5,8	13,1

			Comments
Melting Range		**1250 to 1300 ºC***	***The nepheline syenite reacts with quartz at much lower temperatures than the melting range indicates**
Density		**2.61 g/cm^3**	
pH		**10.0 – 10.3**	**ISO 787-9**
Bulk density	**compacted**	**0.9 - 1.3 g/cm^3**	**EN 1097-3**
Bulk density	**loose**	**0.7 – 0.9 g/cm^3**	**EN 1097-3**

Chemical Analysis (XRF) %

Mean values. These do not represent a specification.

		N20 / N45	
SiO_2	%	55.0	These oxides exist in crystalline complexes of Albite, Microcline and Nepheline. There is no free crystalline silica present.
Al_2O_3	%	24.3	
Na_2O	%	8.2	
K_2O	%	8.8	
CaO	%	1.3	
SrO	%	0.4	
BaO	%	0.4	
MgO	%	<0.1	
TiO_2	%	0.1	
Fe_2O_3	%	0.15	
L.o.i.	%	1.0	

Availability

The products are available in paper bags, big bags and bulk. We deliver from warehouses centrally located around the world. Availability might vary depending on the product requested, or the point of destination.

For Product Information & Customer Service

Worldwide
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Sales@sibelco.com

The technical data presented here is for marketing purposes only and is not contractually binding, the data herein is determined using Sibelco standard test methods. Since the product is based upon a naturally occurring material, we reserve the right to change this data when necessary. Safety information accompanying this product is available in the form of an SDS. All sales are undertaken strictly in accordance with our “General Conditions of Sale”, available upon request, or by a written sales agreement duly signed by us.

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